FunTrek 130

User Manual

Version: 5.0

Holux Technology Inc.

www.holux.com

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Note:

- The contents of this manual will be modified without further notice.
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- The operation temperature for the product is between -10℃~60℃.
- Operating or recharging in an environment with a temperature over 45℃ might cause the system to malfunction. However, this should be considered a normal phenomenon. Please do not operate under extreme temperatures.

Safety Precautions

1. Use the power adapter included with the package. Using other power adapters than the one provided will result to malfunction and could prove to be dangerous.
2. The device should only be used with the supplied batteries.

• About the power adapter:

1. Do not use the power adapter in a wet environment. When hands and feet are wet, do not touch the power adapter.
2. While using the power adaptor, ensure that the area is well ventilated. Do not let paper or other material cover the power adaptor, as this will interfere with cooling. Do not use the power adaptor whilst it is in a bag.
3. Do not attempt to repair the device. If device is damaged or is in a wet environment, replace the device immediately.
4. It is not recommended to charge from a PC because the PC power voltage is not enough to supply the device.

• About the battery

1. Use only the original factory approved power adapter.
2. A Lithium battery is built into the device. To prevent fire or skin burns, do not disassemble, pierce, impact, or expose the battery to fire. The battery will crack, explode, or release dangerous chemicals if placed in a fire.

• Important instructions

1. Note: Replacing with an incorrect battery may result in an explosion. When disposing of the battery, follow the instructions. The replacement battery must be a factory approved original.
2. Regulations must be observed when recycling or disposing of batteries.
3. The battery should only be used in this device.

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Product introduction

FunTrek 130 is a latest handheld GPS navigation device. It comes with a variety of GPS applications:

- GPS Positioning: hidden antenna design, high-sensitivity GPS receiver chip can quickly position
- Electronic compass: Provides direction for location information, with compass function.
- Altimeter: Measure the altimeter by using the GPS altitude and pressure altimeter calibration.
- Touch screen LCD: 3-inch-wide touch screen, you can click your fingers sliding intuitive operation.
- Chinese handwriting input: The system provides simple Chinese handwriting functions, can be free to write on the screen.
- Mode switching: a variety of GPS application mode can be switched according to recreational sports or navigation page is displayed.
- Water resistant: IPX6
- Navigation function: with navigation guidance capabilities.
- Records Information: store destinations (including coordinates, altitude, time, name, description and type) and trail information
- Personal assistant tools: Add calendar, computers and stopwatch
- Geo-Caching: Using the GPS positioning capabilities to carry out treasure hunt.

FunTrek 130 is not only a hand-held GPS device, which includes walking, bicycle car navigation and other recreational resources, with a convenient mode of operation to meet various needs of customers.

Product Spec

Spec.

CPU

- Samsung S3C2416, 400MHz

GPS chip

- High Sensitivity (-159dBm) GPS Chip.

Memory

- Built-in 2GB Flash.
- Support SD V2.0

Display

- 3.0” WQVGA (16:9) TFT LCD
- Transflective Touch Screen (Sunlight viewable)
- 240 x 400 Pixels Resolution

Sensors

- 3D Digital Compass
- Altimeter
- Auto backlight adjustment sensor

Battery

- Battery life: 8.5 hrs (on the basis of 50% backlight brightness & 1/5 duty)
- Removable, Li-Ion 1050mAh
- Operating Temperature
  Charge: 0℃～45℃
  Discharge: -20℃～60℃

Waterproof

- IPX-6

IO interface

- USB 2.0 high speed (mini USB connector)

Adaptor (For indoor use only)

- Input: 100-240Vac, 0.5A, 50/60Hz
- DC Input：5V, 1A
- Operating Temp: 0℃～40℃
- Storage Temp: -20℃～65℃

Dimension

- 58 x 105 x 23 mm

Weight

- 124g (with battery)

Environment temperature

- Operating Temp: -10℃～60℃
- Storage Temp: -20℃～70℃

Unit Overview

Component Function Description: (Front View)

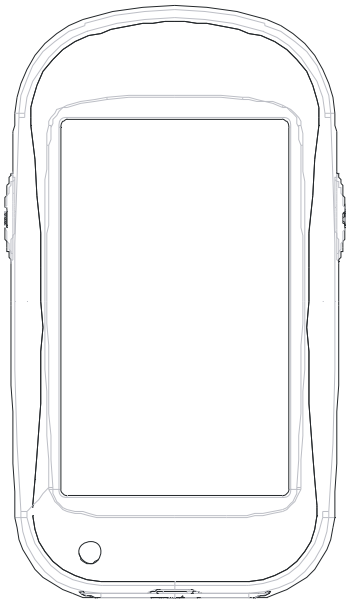
Item	Description
Touch Screen LCD	The device is using the touch-screen control.
Right button	When the device is powered off, press the right button for 3 seconds to turn on this device. When powered on, press this button for 3 seconds to turn off.
Left button	When the device is powered on, press the left button to switch Main Menu, Trip Computer page and Navigation.
LED	1. The LED flashes red when charging 2. The LED stop flashing but glows when charging is complete. 3. The LED dims when the USB is unplugged. 4. The LED will first light a second, and the opening screen prompts.

Component Function Description: (Rear View)

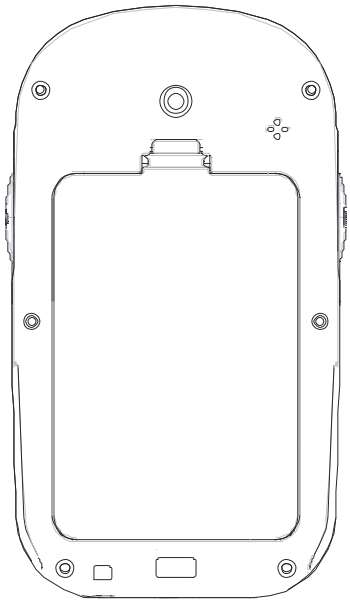
Item	Description
Battery lid	Press and push to open the battery lid for installing or replacing batteries.
Screw holes	Fix and secure screws.

Component Function Description:

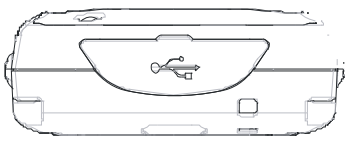
Item	Description
USB port	Connect power or PC/NB for charger or data transfer.
Stylus Hanging Hole	You can tie the bundled stylus to the device.



Front View



Back View



Low Rear View

Basic Operation

Power on and off

When device is on, hold down the right button for 3 seconds to power off. The prompt "Saving data… please wait." will appear while the device is powering off.

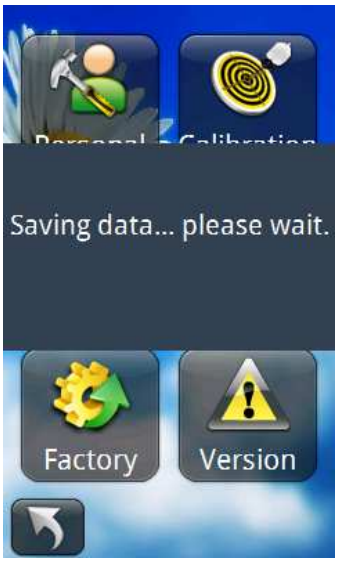


Figure 1 Power off

When device is off, hold down the right button for 3 seconds to power on.

Charging Battery

You may choose one of the following methods to charge the device.

1. Connect the USB adapter to a wall outlet.

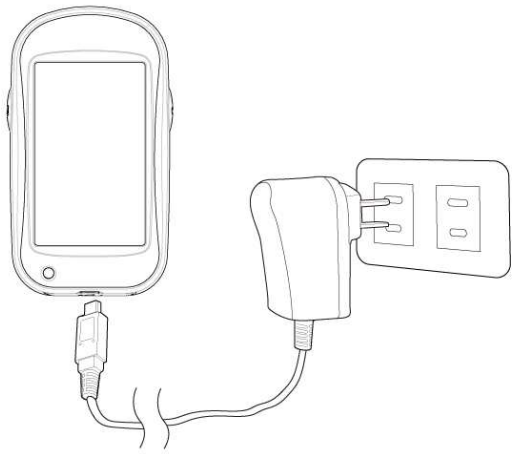


Figure 2 Connect the USB adapter to a wall outlet.

2. Connect the USB cable to your computer.

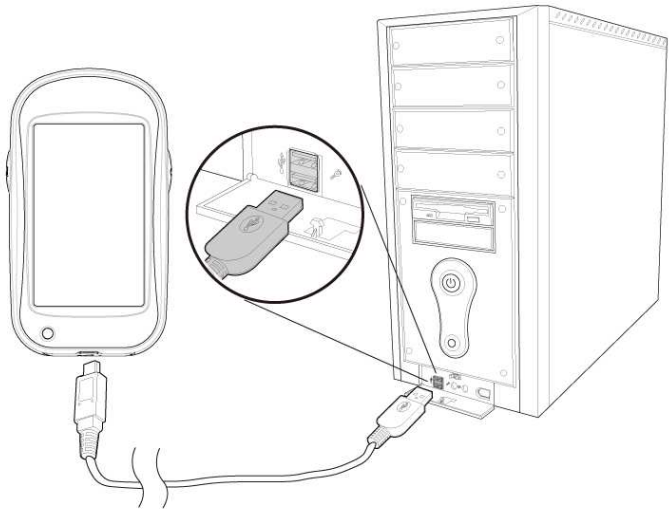


Figure 3 Connect the USB cable to your computer.

Right button

The main function of the Right button is to turn on/off the device; it also contains shortcut keys to adjust backlight brightness, new a track and mark waypoints.

Figure 4 Right Button Shortcut page

Backlight

You can adjust the backlight brightness by following below steps:

1. Press the right button once to enter the operation page as shown above.
2. Click button to increase/decrease the backlight brightness.

Auto Light

FunTrek 130 is equipped with a sensor that automatically detects the ambient light level and adjusts the backlight brightness to save power.

Step:

- Press the right button once to enter the operation page.
- Select the in the backlight adjustment area and the backlight brightness will be automatically adjusted to suit the ambient light.

New Track

You can also use the right button to add a track.

Step：

- Press the right button once to enter the operation page.
- The middle area of the screen shown as is the operation area. Click the "New Track" button, you will be prompted a dialogue box for you to save your track log.

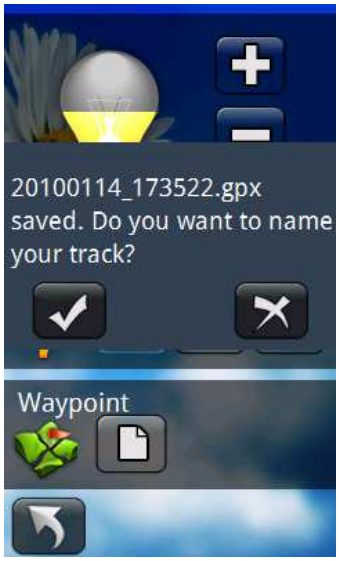


Figure 5 New track

Note:

- ✧ *The current track will be saved when a new track is created. The new track will appear in the track log list.*

- Check to enter the Digital Keyboard. You can press the left right arrow sign to switch among different symbol input methods to edit the track log name.
- Enter the track log's name, and press the confirmation button to save the track log.

Figure 6 a new track started

- Press button to pause recording; press button to start/continue recording.

Note:

- ✧ If you don't define the track name manually, the device will use default name to save the track log automatically.
- ✧ The device will firstly save the track log existing in memory, and then start to record new track log.
- ✧ When turned off, the track log will save to the FunTrek 130 automatically. When connected this device with your computer, you can use the built-in memory of the device to operate track log.
- ✧ Please save track logs regularly so they are not accidentally lost.
- ✧ When auto power off is enabled, the track log will automatically be saved when powering off.
- ✧ When device power is off due to low battery the track log will be automatically saved.
- ✧ When device is powered off manually, the track log will be automatically saved.
- ✧ The track log will be lost if power is accidentally interrupted or the battery is removed after a crash.
- ✧ When the device is connected to a computer, the track logs in memory can be manipulated.

Mark Waypoint

You can also use the right button to mark a waypoint.

Step:

- Press the right button once to enter the operation page.
- The bottom of page is the area to mark waypoints.

- Press the "Mark Waypoint" button, you will be prompted a dialogue box for you to name the waypoint.

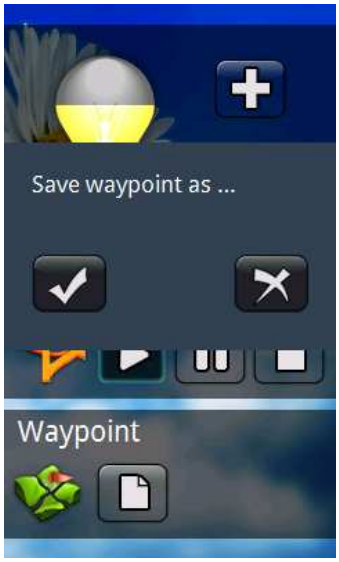


Figure 7 Mark Waypoint

- Press to enter the symbol input page, and edit the point name.

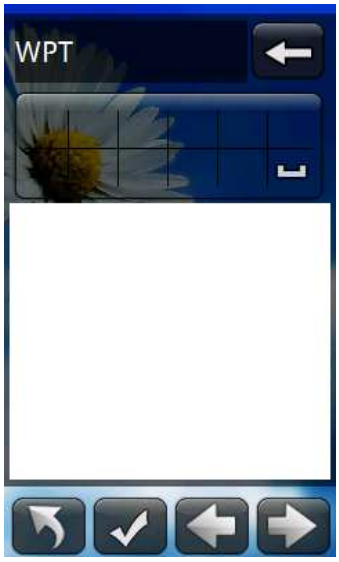


Figure 8 Edit new waypoint name

- After edit the name, press the confirmation button, and you will be prompted to select waypoint category.

Figure 9 Waypoint category

- Press confirmation button "✓" to enter the category list. In the list, you can define the category. Use the up/down button to skip to next/previous page.

Figure 10 select a waypoint category

- Select the category, and press the confirmation button .
- If you don't define the waypoint manually, the device will use default name to save the waypoint automatically.
- When finished, you will be prompted a message that new waypoint is successfully marked.

Figure 11 waypoint marked

Note: If the GPS positioning is not ready yet, the device will not mark a waypoint, and the screen prompts “No GPS signal! Marking waypoint failed!”.

Figure 12 Marking waypoint failed

Left button

Trip Computer

Figure 13 Trip Computer pages

Press the left button to enter the Trip Computer screen

Step:

- Press the left button once to enter the Trip Computer.
- In the Trip Computer, you can view travel distance, travel time, current speed and altitude, etc.
- Use button to enter the next page, which contains information of current speed, heart rate, calories, and CO2 reduced, etc.

Change Trip Computer Items

You can change the screen layout to 3 pages or 6 pages in screen.

Step:

- You can use the setting button to select the frequently used items (3 or .6 items to be
- Press the setting button you can select the item that you want to change. Click the item to enter the trip computer list, and use the up/down button to flip page and search.

Figure 14 Select Items

- Select the item to be added, press confirmation button to change.

Page Display Selection

You can use and button to change the number of pages displayed on the screen.

: displays 3 items of Trip Computer on screen.

: displays 6 items of Trip Computer on screen.

Figure 15 Pages shown on screen

View Altitude

Use the left button to view altitude.

Figure 16 Altitude information

Figure 17 Speed information

Step:

- Press the left button once to enter the Trip Computer.
- Press the button, and enter the altitude page.
- The altitude page displays the current altitude and speed. Press the button to enter the Switch Axis page. Select the desired viewing option then return to the altitude or speed graph.

Figure 18 select graph

- You can use and to zoom in and zoom out.
- When you change the graph scale, use to return normal status.

Note:

✧ *The altitude graph corresponds to the track log. If the track log has been cleared or there are no records, there will be no altitude data.*

✧ *The altitude graph can only be clicked and dragged when its larger than the screen display.*

✧ *is used to reset the altitude graph display after manual scrolling.*

Compass

Use the left button; you also can view compass information.

Figure 19 Compass information

Step:

- Press the left button once to enter the Trip Computer.
- Press the button three times to enter the compass page.
- You can also check the compass pointer and G-Finder information.
- To calibrate the compass, press 。
- Follow the on-screen instruction to calibrate the compass. When finished, the system will restore to the compass screen.

Note:

✧ During the calibration, you are not allowed to exit; nor is the Left/Right button functional.

✧ *Please play the FunTrek 130 on a flat surface for a more precise bearing.*

General information

General information contains GPS coordinates information, GPS signal strength, power, battery status and current time.

Figure 20 General information

Step:

- Press the left button once to enter the Trip Computer.
- Press the button four times to enter the compass page.
- In the page, you can view GPS coordinates information, GPS signal strength, power, battery status and current time.
- Use left/ right button to skip to other function page.

Note:

✧ If the GPS positioning is not ready yet, the screen will not display the coordinate information.

✧ *The items to be displayed on the General Information page can be configured in the Select Info page under Setup.*

Map Navigation

FunTrek 130 contains map navigation function, which provides real-time navigation services for you.

Turn on the device and press the left button twice to enter the Map Navigation. Please refer to the latter section titled “Map Navigation” for details.

Lock/Unlock the screen

FunTrek 130 is designed for touch-screen control, to avoid accidental touches which lead to wrong operation. The FunTrek 130 provides a Screen Lock/Unlock function.

Screen Lock

If the screen is unlocked, press the left button for 3 seconds to lock the screen, the message of "Screen locked. Press left key for 3 seconds to unlock" pops up. Once the

screen is locked, the device will not respond to any of your operation unless you have the screen unlocked.

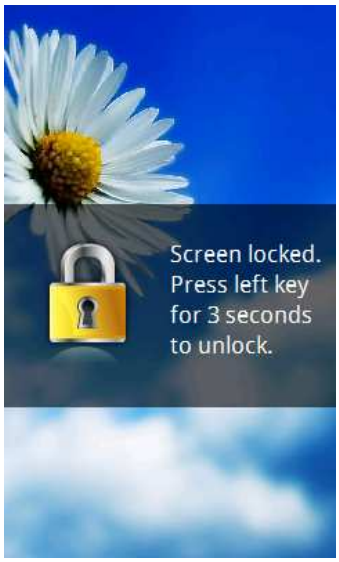


Figure 21 Lock screen

Unlock the screen

If the screen is locked, press the left button for 3 seconds to unlock the screen, "screen unlocked!" pops out.

Figure 22 Unlock screen

Connect to PC

When the FunTrek 130 is connected to a PC the following prompt will appear. You can choose to enter storage mode or charging mode.

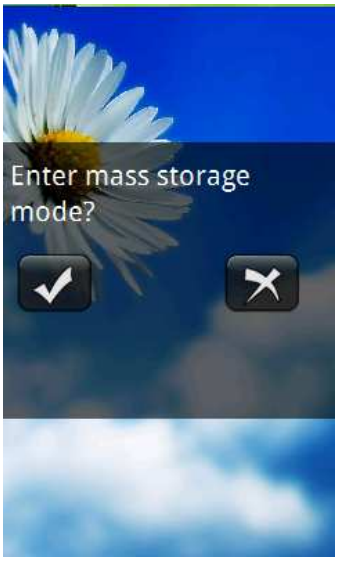


Figure 23 storage mode

Storage mode

Connect Funtrek 130 to the PC with a USB cable. When the prompt appears, click on to enter storage mode.

Folders

In Storage mode you will be able to see the folders in the memory card.

Folder Name	Description
bg	Stores background pictures. The user can add or delete pictures in this folder.
cache	Stores geo-gaching gpx files. The user can add or delete cache files in this folder.
map	Stores the navigation program.
sc	Store screenshot pictures.
track	Stores track files. The user can add or delete tracks in this folder.
wpt	Stores waypoint files. The user can add or delete waypoints in this folder.
update	Stores applications.

Charging mode

Connect Funtrek 130 to the PC with an USB cable. When the prompt appears, click on to enter charging mode.

Screenshot

Press both the left and right buttons at once to take a screenshot. If screenshot is successful a prompt will appear. When the Funtrek 130 is connected to a PC in storage mode, the saved screenshot can be accessed in the "sc" folder.

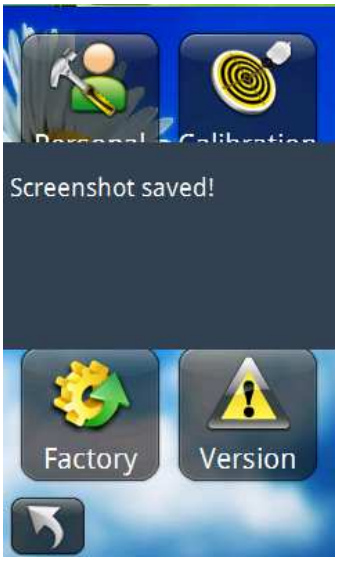


Figure 24 screenshot

Main menu list

When turned on, the top of main menu is status bar. The six icons are function list in below of main menu.

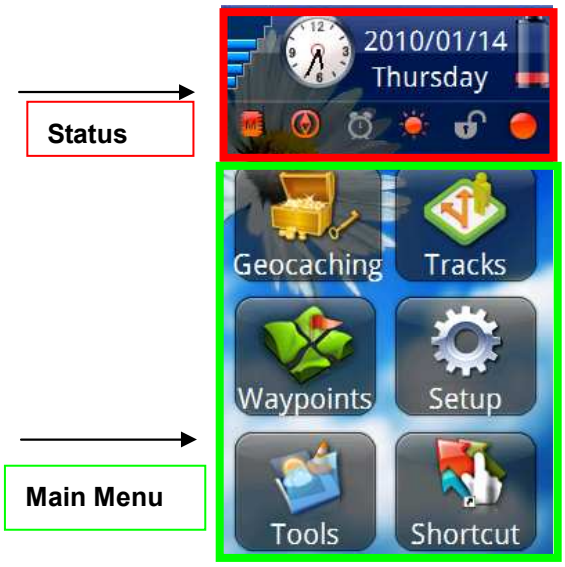


Figure 25 Status Bar & Main Menu

Status Bar

Figure 26 Status Bar

Satellite information

Click on the satellite icon in the status bar to open the Satellite Status page.

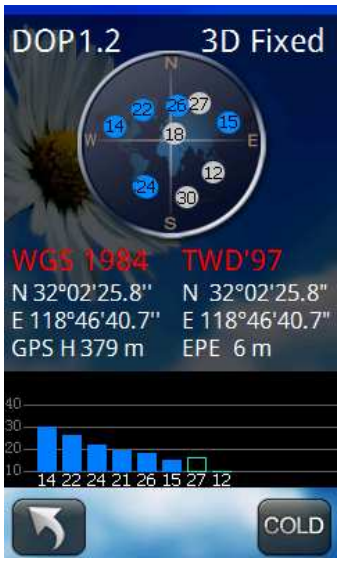


Figure 27 Satellites status

Satellite information

Icon	Descript	Operation
/	Satellite information Indicated the signal strength / no signal	Click the icon to enter the satellite page, and view the satellite quantity and the signal strength
COLD	Cold start	Click the cold start button in satellite page to re-search the satellite signal.
DOP	Positioning precision	View in Satellite Status page
Not Fixed /2D Fixed/3D Fixed	Positioning status	View in Satellite Status page
WGS1984 TWD'97	Coordination System WGS1984 is the satellite positioning coordinate system; TWD'97 is the user configured coordinate system. It changes according to user settings.	View in Satellite Status page
GPS H	GPS measured Height	View in Satellite Status page
EPE	GPS Estimated Position Error	View in Satellite Status page
40 30 20 10	GPS signal's CN value	View in Satellite Status page

Time

Icon	Descript	Operation
	Time information contains time information including clock, date and week.	Click the icon to enter the page to view the exact time.
	You can set the alarm quickly. Alarm is turned on.	Please refer to section titled Alarm for details.
	Alarm is turned off.	n/a

Click on to enter the Time page. Here you can check the current date, time and alarm settings. To set the alarm, click on the alarm icon to open the Alarm Setup page.

Figure 28 Time page

Attention:

✧ *GPS positioning should be enabled to ensure that the correct time is displayed.*

Power message

Icon	Descript	Operation
	Power message	Click the icon to enter the power page.
	Battery down to 1/3 charge	n/a
	Battery low message	n/a

Click on the Power icon to open the Power Status page and check the charge remaining.

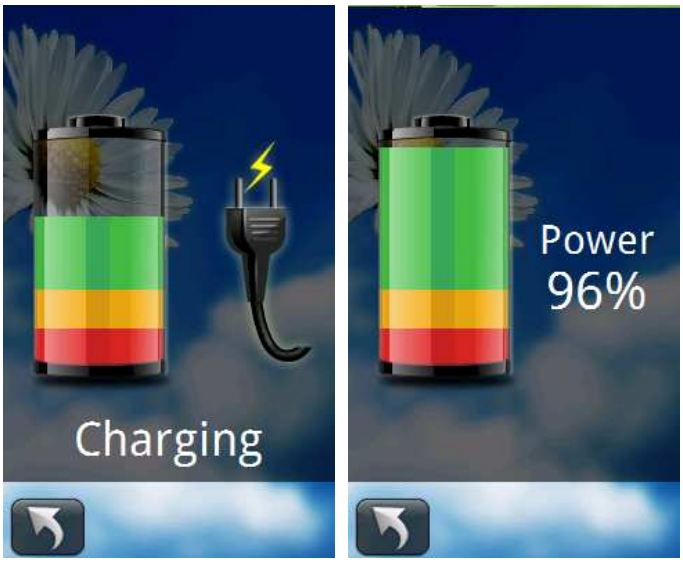


Figure 29 Power status

Storage mode

Icon	Descript	Operation
	Track and waypoint data stored in SD card.	See Storage Location for instructions.
	Track and waypoint data store in internal memory.	See Storage Location for instructions

Compass

Icon	Descript	Operation
	Compass calibrated	See Compass Calibration for instructions.
	Compass requires calibration	n/a

Alarm clock

Icon	Descript	Operation
	Alarm is turned on.	n/a
	Alarm is turned off.	n/a

Backlight

Icon	Descript	Operation

	Backlight is on.	The detailed step, please refer to Backlight
	Backlight is off.	The detailed step, please refer to backlight

Locked the screen

Icon	Descript	Operation
	The screen is locked.	The detailed step, please refer to Screen Lock/Unlock
	The screen is unlocked.	The detailed step, please refer to Screen Lock/Unlock

Track log

Icon	Descript	Operation
	The track log was recording.	The detailed step, please refer to New Track
	The track log was paused.	The detailed step, please refer to New Track

Main Menu

The main menu contains Geocaching、Tracks、Waypoints、Setup、Tools and Shortcut.

。

Figure 1 Menu

Setup

Through Setup, you can set the “Trip Information”, “Sport Mode”, “Log Interval”, “Backlight”, and “Lock Screen”. The setting function contains “Profile”, “Calibration”, “System”, “Warning”, “Factory reset” and “Version”.

Profile

Figure 30 Profile

Odometer

You can save trip information in ODO1 or ODO2. The default is ODO1。

Figure 31 Select Odometer

Step:

- On the main menu page, click Setup.
- Select “Profile”
- Select “Odometer”. It contains “ODO1” and “ODO2”.
- The default value is “ODO1” Select “ODO1” or “ODO2”.
- When completed, return to the main menu page.

Sport mode

You can select your sport mode among walking, running, biking or vehicle. Trip Computer will calculate calories consumed, CO2 consumed, and etc. based on your selection.

Figure 32 Sport modes

Step:

- On the main menu page, click Setup.
- Select “Profile”
- Select “Sport Mode”.
- Select one your sport mode from “walking”, “running”, “biking” and “vehicle”. The default mode is “biking”.
- When completed, return to the main menu page.

Note:

The new Sport mode will be applied to new tracks.

Auto track

Select start tracking manually or automatically.

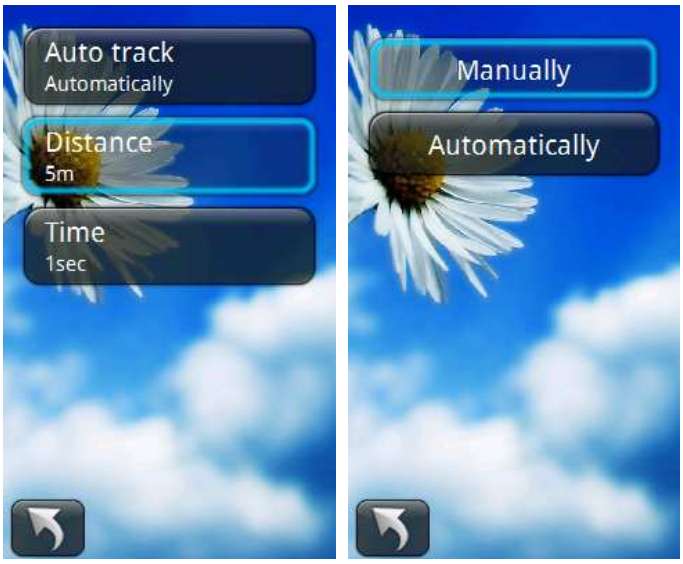


Figure 33 Auto track

Step:

- On the main menu page, click Setup.
- Select “Profile”
- Select “Log Interval”
- Select and enter “Auto track”.
- Select “Manually” or “Automatically”

Note: If "Manually" is selected you must use the right button to create a new track in order to begin recording.

Log Interval

Select time or distance for log interval.

Step:

- On the main menu page, click Setup.
- Select “Profile”
- Select “Log Interval” to open the menu. The two options are "Distance" and "Time".

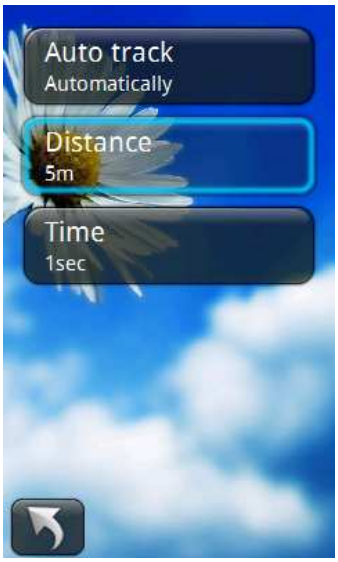


Figure 34 Log Interval

- When "Distance" or "Time" is selected the digital keyboard appears.
- Enter time interval or distance interval.

Figure 35 Enter interval

- When completed, press confirmation button .
- Return to the main menu page.

If imperial units were selected in Unit Setup, you can enter the interval as an imperial value.

Attention:

- ✧ *Under the metric system, the track log "Interval" can be a value between 1 and 1000 meters.*
- ✧ *Under the imperial system, the track log "interval" can be a value between 1 to 4000 feet.*

Personal profile

Enter personal profile. The system will calculate the consumed calories based on the entered personal profile and sport mode. Accordingly, it will give the calories that you burn.

Figure 36 Personal Profile

Figure 37 Profile Keyboard

Step:

- On the main menu page, click Setup.
- Select “Profile”
- Select “Profile” to enter the personal information list. The personal information includes Birthday and weight.
- Select each item in turn to enter appropriate information.
- When completed, press confirmation button ✓ to save your setting.

If imperial units were selected in Unit Setup, you can enter the interval as an imperial value.

Attention:

- ✧ *Under the metric system, the input range for weight is between 1 ~ 200 kilograms.*
- ✧ *Under the imperial system, the input range for weight is between 1 ~ 500 pounds.*

Background

You can select the background picture that you like through this function

Step:

- On the main menu page, click Setup.
- Select “Profile”
- Select “Background” to enter the “Background” menu.

Figure 38 background

- Select one of the pictures.
- When completed, return to the main menu page.
- You can add pictures to the list by loading the picture files to the Holux\bg file folder.
- The default value is the picture named “sunflower”.

Note: FunTrek 130 supports only .bmp file format and the file size should be less than 500K.

Calibration

You can calibrate Altitude, Compass, G-Sensor and Screen.

Figure 39 Calibration

Compass

Step:

- On the main menu page, click Setup.
- Select “Calibration”.
- Select “Compass”.
- Click the Start button to calibrate the compass.

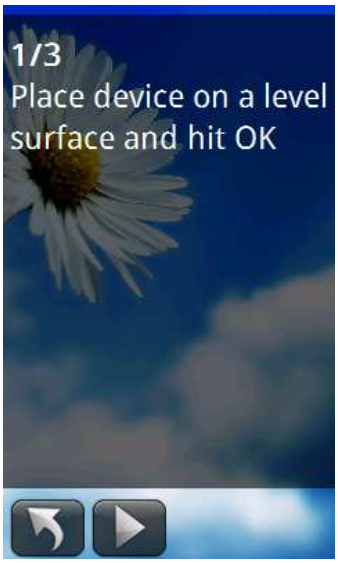


Figure 40 Compass calibration

Figure 41 Calibrating

- When the calibration is completed, the system will prompt a message for completion. Click the return button to the previous step.

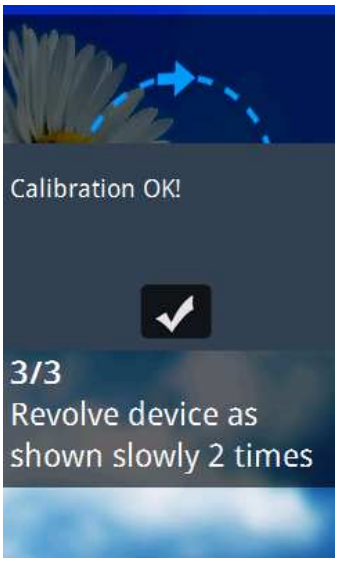


Figure 42 Calibration OK

Altitude

Figure 43 Altitude Calibration

Step:

- On the main menu page, click Setup.
- Select “Calibration”.
- Select “Altitude” to view the option of altimeter calibration mode. You can select “GPS” or “Manual” calibration.
- If "Adopt GPS altitude" is selected, a confirmation prompt will appear.

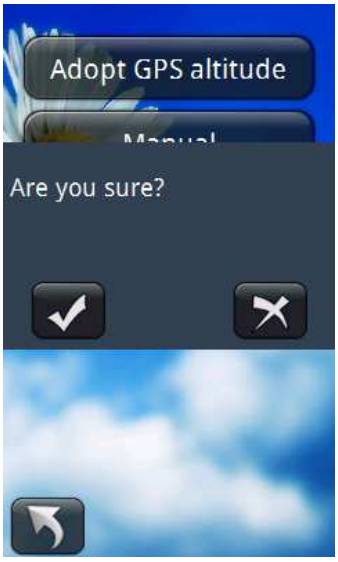


Figure 44 Adopt GPS altitude

- Click on Confirm to begin calibration. Once calibration is complete, the prompt "Calibration OK" will appear.

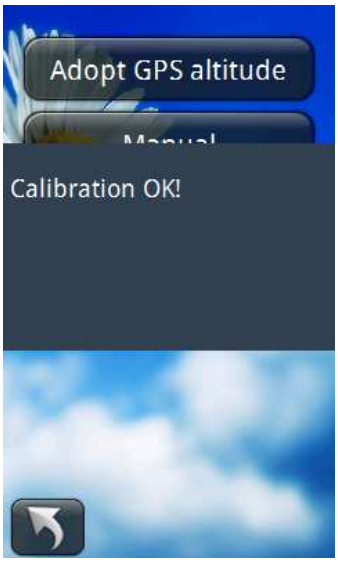


Figure 45 Calibration OK

- If "Manual" calibration is selected, you will be prompted to enter the current altitude.

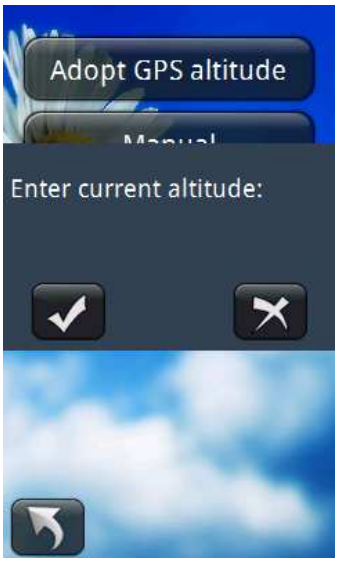


Figure 46 Enter altitude

- Click on Confirm to open the Enter Altitude page.

Figure 47 Manual Calibration

- When completed, pop-up confirmation prompts. Return automatically.

Screen

Step:

- On the main menu page, click Setup.
- Select “Calibration”.
- Select “Screen” to calibrate the screen.
- When the calibration is completed, the system will return to the previous screen automatically.

Note:

You can't interrupt the screen calibration process.

System

System provides you to 1). Select the unit of distance/speed; 2). Set time format (24/12 hours) and time zone; 3).File saving location (built-in memory or SD card), and 4). Coordinates format and Map Datum.

You can also clear the value of ODO1, ODO2 and the CO2/Tree saved.

Figure 48 System setting

Left Key

Use the left key to set the project displayed on Trip Information and the auto-flip.

Figure 49 Left key setting

Select Info Page

Figure 50 Left key info page

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Left Key”
- Click “Select Info Page”.
- You can select by checking items to be displayed for Left Key operation. Items to be selected are: Trip Computer1, Trip Computer2, Altitude Graph, Compass and Information.
- When completed, return to the main menu page.

Note:

- *At least one item must be selected in the Select Info page.*
- *If no item is selected, when you click on Confirm you will be prompted to select an item for the left button shortcut.*

Flip Page Time

Flip page time is the time interval set to automatically switch among Info Page for Left Key operation.

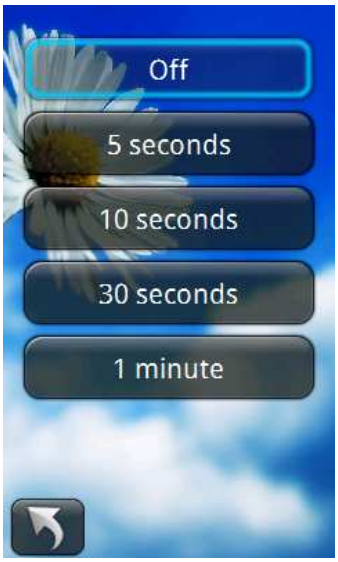


Figure 51 Flip page time

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Left Key”
- Click “Flip Page Time”
- You can select from “Off”, “5 sec”, “10 sec”, “30 sec” and “1 minute”. When completed, return to the main menu page.

Altitude Mode

FunTrek 130 provides altitude display including barometer and GPS.

Figure 52 Altitude mode

Step:

- On the main menu page, click Setup.

- Select “System”
- Select “Altitude Mode”.
- You can select between “From Barometer” and “ From GPS”.
- When completed, return to main menu page.

Screen Lock

You can enable the screen lock function to make the device automatically locked.

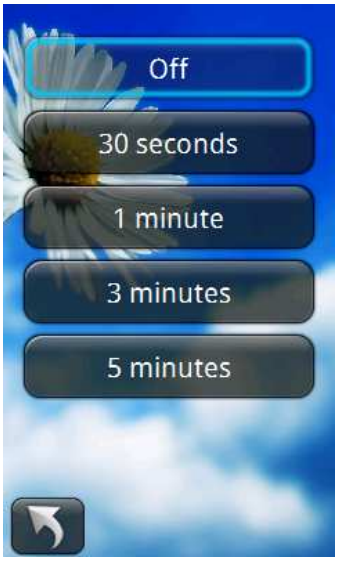


Figure 53 Screen lock

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Lock Screen”.
- You can select to disable this function or select from “30 seconds”, “1 minute”, “3 minutes” or “5 minutes” for the device to automatically lock screen.
- When completed, return to the main menu page.

When the screen is locked, press the left button for 3 seconds to unlock the screen, and "Screen unlocked!" pops out.

Backlight

Use this function to set the duration of the backlight. This will save the battery power for the system automatically turns off backlight when it is not necessary.

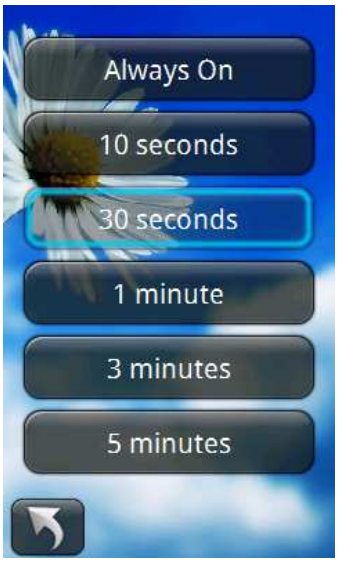


Figure 54 Backlight

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “backlight”.
- You can select to keep the backlight always on or to keep it on for “10 seconds”, “30 seconds”, “1 minute”, “3 minutes” or “5 minutes”.
- When completed, return to the main menu page.

Beep

Use the Beep setting to turn on/off the button/ message sounds and adjust the volume.

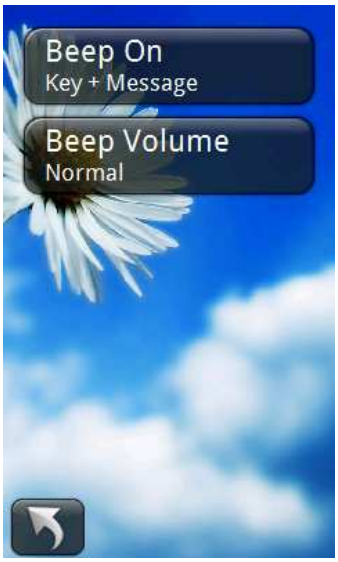


Figure 55 Beep setting

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Beep”. You can change settings for “sound” and “volume”.
- Select “Sound” to enter the sound setting. You can select to turn off the Beep sound, or select to enable sound for key, message or both key and message.
- Select “Volume” to enter the volume setting. You can select to turn off the volume or adjust the volume to “Low”, “Normal”, and “High”.
- When completed, return to main menu page.

Auto Power Off

Use this function to set a determined time to automatically power off.

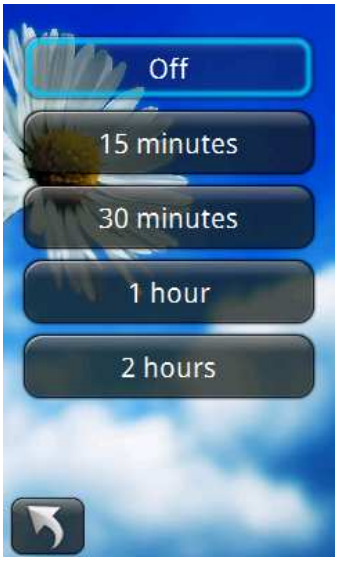


Figure 56 Auto power off

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Auto Power Off” to enter the auto power off menu. It contains “off”, “15 minutes”, “30 minutes”, “1 hour” and “2 hours”.
- When completed, return to the main menu page.

Note:

- ✧ *If device fails to acquire a fix within the set time it will automatically power off.*
- ✧ *If a satellite fix is acquired within the set time, the timer will reset.*

Coordinates Setup

You can set the coordinate format and map datum.

Figure 57 Coordinates Setup

Coordinates Format

User can choose the appropriate format for their use.

Figure 58 Coordinates format list

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Coordinates Format”.

- Use up/ down button to flip page.
- When selection is completed, return automatically.

User Grid

- Select User Grid in Coordinates Format List, and enter the parameter page.

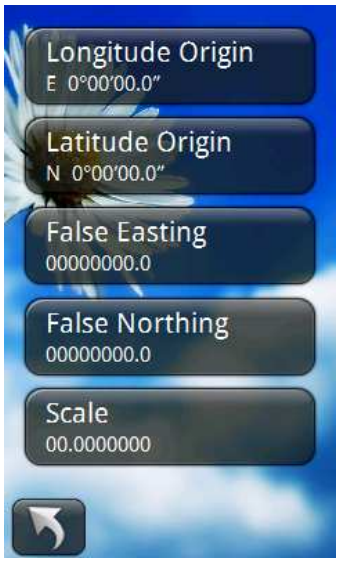


Figure 59 User grid parameters

- Select the parameter you want to define, and the digital keyboard appears.

  In longitude and latitude page, you can use E/W and S/N to change the directions.

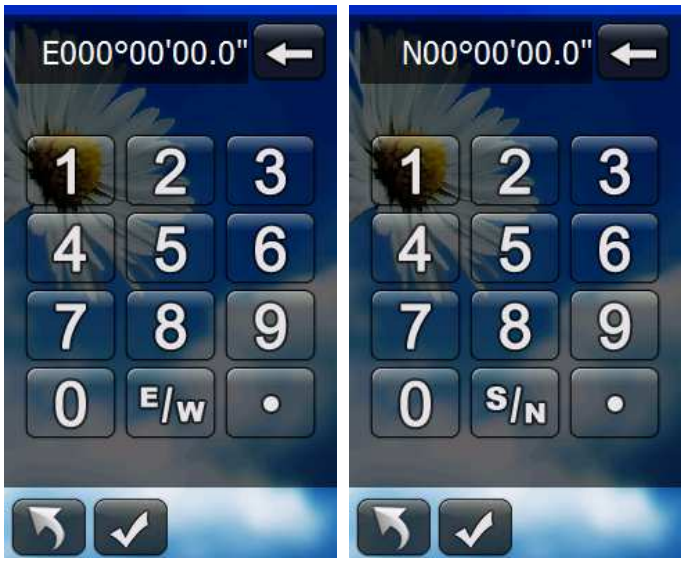


Figure 60 Longitude and latitude origin

- Define the parameters step by step, and then return.

Map Datum

From the Map Datum you can select the appropriate coordinate system for users, and complete the coordinate system transformation.

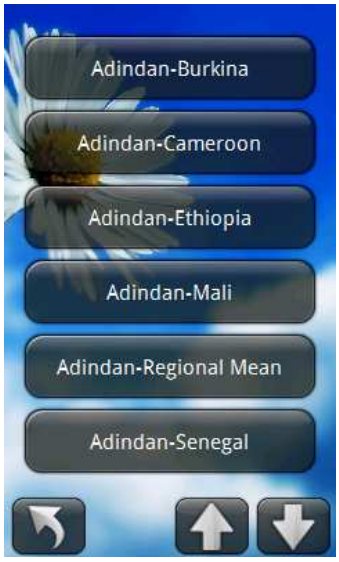


Figure 61 Map datum

Step:

- On the main menu page, click Setup.
- Select “System”.
- Select “Coordinate format” .
- Select “Map Datum”
- Use up/ down button to flip page.
- When selection is completed, return automatically.

User Datum

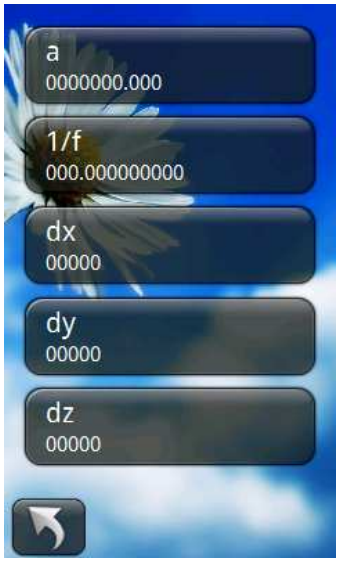


Figure 62 User datum

- On the Map Datum page, select “User Datum”
- Select the parameters.
- The digital keyboard appears.
- Enter the value and press the confirmation button.
- Define the parameters step by step, and then return.

Shortcut

You can select a major application and make a shortcut for it. The selected application will be displayed on the main menu for fast access.

Figure 63 Shortcut setup

Step:

- On the main menu page, click Setup.
- Select “System”
- Select “Shortcut”.
- Select the application you want to make shortcut. You can select from, “G-Finder”, “Calendar”, “Alarm clock”, “Calculator”, “Stopwatch”, “Unit Convert.”, “Health Info.” and “ER (Emergency) Info.”.
- When completed, return to the main menu page.

Unit Setup

You can setup system units in this function, and switch between in imperial and metric. In English system, the default is imperial.

Step:

- On the main menu page, click Setup.
- Select “System”.
- Select “Unit Setup”.

Figure 64 Unit setup

- Select “Distance/Speed” to choose metric as “km/m” or imperial as “mi/ft”.

Figure 65 Unit select

- When selection is completed, system will return to the previous screen.
- If "km/m/" is selected all information including alerts will be displayed using metric units.
- If "mi/ft" is selected all information including alerts will be displayed using imperial units.

Time Setup

Figure 66 Time set up

Step:

- On the main menu page, click Setup.
- Select “System”.
- Select “Time Setup”.
- Select “Time Format”. Select format “24 hours” and “12 hours”.

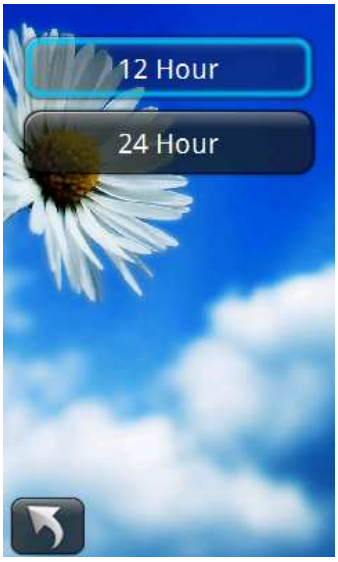


Figure 67 Time format

- Select “Time Zone”. Click the up and down arrow sign to select.

Figure 68 Time zone

- When selection is completed, system will return automatically.

File Saving Location

Step:

- On the main menu page, click Setup.
- Select “System”.
- Click “File Saving Location”.
- Select “Holux Internal Memory” or “SD card”.

Figure 69 File saving location

- If you choose SD card to save track log file, make sure the SD card is well inserted. If no SD is inserted, system will prompt "No SD card is found.”
- When completed, system will prompt “Setup ok! You need to restart ! ”

Language

In the Language setup menu you can change the interface language. Available options include Simplified Chinese, Traditional Chinese and English.

Figure 70 Language select

Step:

- At the Main Menu click on "Setup".
- Select "System" to open the system setup page. Use the change page button to cycle through the pages.
- Select Language to open the language setup menu. The options are: Simplified Chinese, Traditional Chinese and English.
- Select your preferred interface language then click on Back to exit.

Clear Odometer/CO2

Clear Odometer/CO2 enables users to clear the existing trip information and the total amount of carbon reduction / total tree planted volume.

Step:

- On the main menu page, click Setup.
- Select “System”.
- Click “Reset”.
- Select “ODO1”, “ODO2” or “Total CO2/Tree saved”.

Figure 71 Select item

- When selection is completed, system will return automatically.

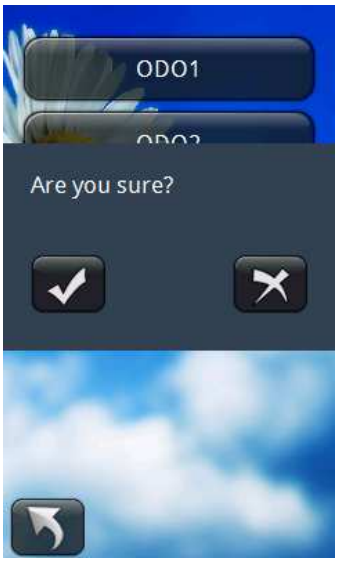


Figure 72 Clear odometer

Alert

You can set alert for Distance, Altitude, and Time.

Figure 73 Alert is off

Distance alert

Step:

- On the main menu page, click Setup.
- Select “Warning”.
- Select “Distance”.
- Enter the appropriate value. The unit is meter.
- When completed, press the confirmation button. System will return to the previous step automatically.
- To turn off alerts, click on

to exit the Digital Keypad then turn off the alerts.

Attention:

- ✧*Under the metric system, the input range for alerts is between 100m ~ 999km.*
- ✧*Under the imperial system, the input range for alerts is between 0.1 ~ 700.0 miles.*

Figure 2 Enter alert distance

BAR ALT (Barometer Altitude) alert

Step:

- On the main menu page, click Setup.
- Select “Alert”.
- Select “BAR ALT”. BAR ALT is barometer altitude.
- Enter the appropriate value. The unit is meter.
- When completed, press the confirmation button. System will return to the previous step automatically.
- To turn off alerts, click on

to exit the Digital Keypad then turn off the alerts.

Attention:

- ✧ *Under the metric system, the input range for BAR ALT is between -1000m ~ 9999m.*
- ✧ *Under the imperial system, the input range for BAR ALT is between -3000 ~ 40000 feet.*
- ✧ *BAR ALT alert is based on the altitude.*
- ✧ *When current altitude reaches or exceeds the set value, the alert prompt will pop up.*

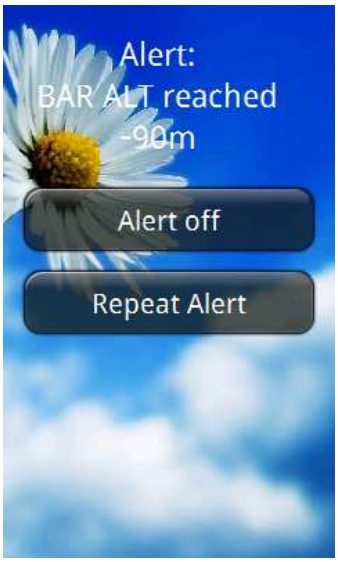


Figure 74 Altitude alert

✧ *If "Repeat Alert" is selected then the alert will continue to pop up when the current altitude is equal or exceeds the set value. To turn off alert, select "Alert Off".*

Notice!

- The device estimates altitude based on air pressure. The means that altitude readings for the same location may vary if air pressure changes.
- The semiconductor pressure sensor used by the device for altitude measurements also is affected by temperature. When taking altitude measurements, make sure the device is not subjected to temperature changes.
- Do not use this device for measuring altitude in applications that demand professional or industrial level precision.
- Do not rely upon this device for altitude measurements or perform button operations while sky diving, hang gliding, or riding a gyrocopter where there is the chance of sudden altitude changes.
- The air inside of a commercial aircraft is pressurized. Because of this, the readings produced by this device will not match the altitude readings announced or indicated the flight crew.

Time alert

Step:

- On the main menu page, click Setup.
- Select “Alert”.
- Select “Time”.
- Enter appropriate value. The unit is minute.
- When completed, press the confirmation button. System will return to the

previous step automatically.

Note:

- ✧ *The input range for Time alert is between 1 ~ 120 minutes.*
- ✧ Once Warning is turned ON, system will prompt warning message and start warning beep sound when determined warning distance, altitude or time is achieved. You can select “Alert off” or “Repeat Alert”.
- ✧ If you select “Alert off”, both warning message and warning beep sound will be turned off.
- ✧ If you select “Repeat Alert”, both warning message and warning beep sound will repeat every time when one of the warning values is reached.

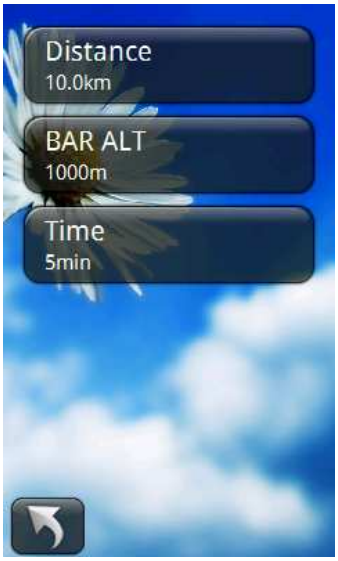


Figure 75 Alert is on

Factory

Press Factory is to restore the setting of “Profile”, “System”, and “Alert” to the factory default. Please note that all existing values/setting will be cleared.

Step:

- On the main menu page, click Setup.
- Select “Factory”.
- The System will prompt a warning message for you to confirm.

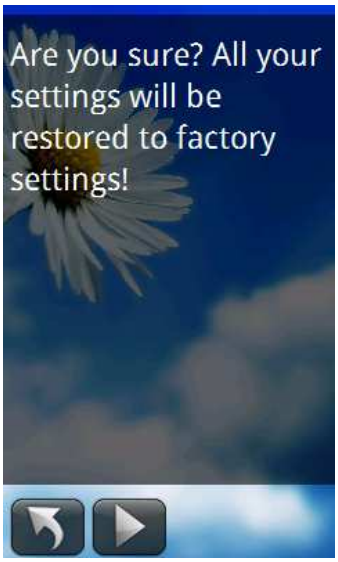


Figure 76 Factory reset

- Press the confirmation button , the device will return to initial setup and “Factory reset ok” pops out when finished.

Figure 77 Factory reset OK

- When completed, system will return to the previous step automatically.

Version

You can get the version information of the OS and AP for this device.

Step:

- On the main menu page, click Setup.
- Select “Version”.

FunTrek 130
Holux Handheld OS V1.32
Holux Handheld AP V1.00.010
Microsoft® Windows® CE 5.0
Copyright 2004 Microsoft Corporation.
All rights reserved by 2009 Holux Technology, Inc.
All other trademarks are the property of their respective owners.
The program is protected by US and international copyright law.

Figure 78 Version

- When completed, press back button to return.

Tools

FunTrek 130 offers a set of daily tools including “G-Finder”, “Calendar”, and “Alarm clock”, “Calculator”, “Stopwatch”, “Unit (Unit convert), “Health” and “Emer. (emergency).

Figure 79 Tools

G-Finder

The G-Finder enables users to mark their starting points. It helps you get current position and distance from where you started. This helps guide you to return to the starting point.

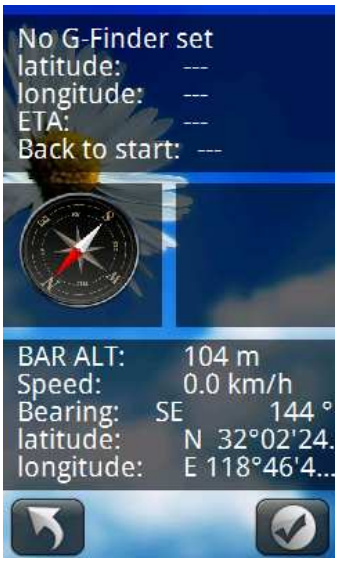


Figure 80 G-Finder

Step:

- On the main menu page, click “Tools”.
- Click “G-Finder”.

- If no G-Finder has been marked, a message of current position will appear. The system will also prompt “Mark this point as a start?” for you to mark your current position as the Start Point.
- Once the Start Point is marked, the compass will display distance between your current position and the Start Point. The Compass will display relative position between two positions.

Figure 81 Mark start point

- Press confirmation button, the setting is completed.
- Next time when you enter Compass, the system will display the relative distance and position. Arrow points the start direction.

Figure 82 G-Finder was set

Calendar

Step:

- On the main menu page, click “Tools” icon to enter the tool menu.
- Click “Calendar” icon to view the calendar page.
- After viewing the page, press back button to return.

Figure 83 Calendar

Alarm Clock

Step:

- On the main menu page, click “Tools” icon to enter the tool menu.
- Click “Alarm clock” icon to view the alarm clock page. You can set a specific time on one day or other and turn on the alarm as a reminder.
- Press the button to increase/decrease the value for setting the time. For day selection, click the day directly. You can select more than one day. When completed, click “Turn On” to start the alarm clock.

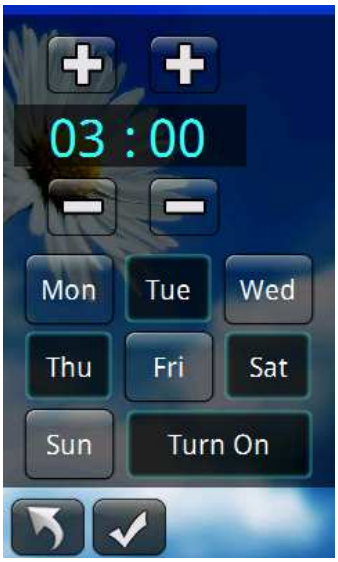


Figure 84 Turn on alarm clock

- To turn off the alarm clock, clock, enter the alarm setting page, click “Turn Off” button.

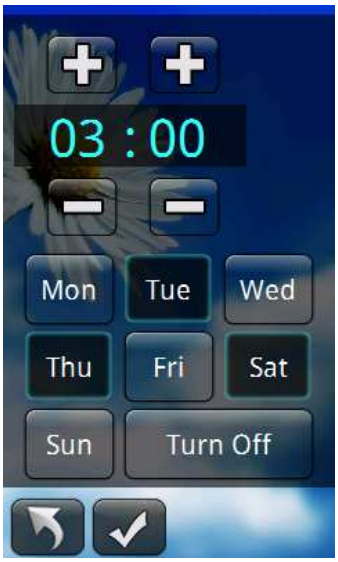


Figure 85 Turn off alarm clock

Calculator

Step:

- On the main menu page, click “Tools” icon to enter the tool menu.
- Click “Calendar” icon to use the calendar function.

Figure 86 Calculator

Note:

- ✧ *Up to 9 digits can be entered into the calculator.*
- ✧ *If the result exceeds 10 places it will be displayed using scientific notation.*

Figure 87 Scientific notation

Stopwatch

Stopwatch enables you to accurately measure elapsed time.

Step:

- On the main menu page, click “Tools” icon to enter the tool menu.
- Click “Stopwatch” icon to enter the stopwatch function.
- Click the start button to start.

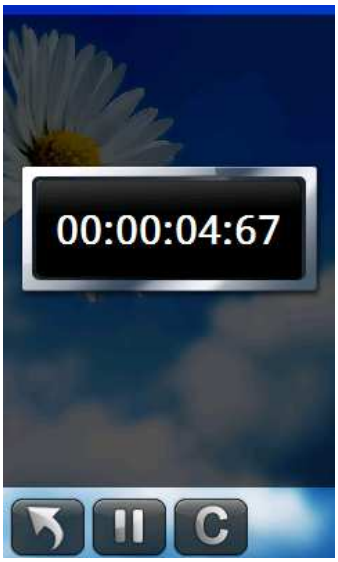


Figure 88 Stopwatch

- When the timing is completed, press pause button to get the elapsed time.
- If the timing is pause, press to resume counting time.

Figure 89 Stopwatch paused

- When you want to re-timing, press the C button to clear up the value, and press start button to re-timing.

Unit Conversion

Unit Conversion converts units of length, area, weight and volume.

Step:

- On the main menu page, click “Tools” icon to enter the tools menu.

- Click “Unit” icon.

Figure 90 Unit conversion

- Select “Length”, “Area”, “Weight” or “Volume”.
- The digital keyboard appears.

Figure 91 Length Conversion

- Enter the value you want to convert on the upper left cell.
- Click the upper/lower right buttons to select units from the unit list. The upper right button is the source unit (before conversion), and the lower right button is the target unit (after conversion).

Figure 92 Units list

Figure 93 Conversion

Health

In Health, you can read or add health information.

- On the main menu page, click “Tool” icon to enter the tool menu.
- Click “Health”.
- Select one of the options, click it to enter and view the Health Info.
- Use the up/down button to flip page. After viewing the page, press back button to return.

Emer. (Emergency info)

In Emergency info, user can read or add emergency information.

- On the main menu page, click “Tool” icon to enter the tool menu.

- Click “Emer.”, and enter the information list.
- Select one of the options, click it to enter and view the emergency information.
- Use the up/down button to flip page. After viewing the page, press back button to return.

Tracks

You can use Tracks to view track, get the detail information of each track log, and delete track.

Figure 94 Tracks list

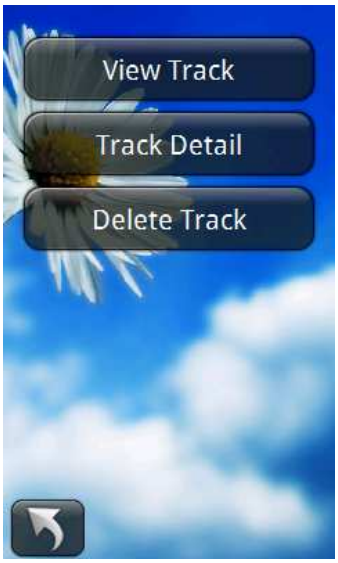


Figure 95 Track Menu

View Track

You can select tracks from the track list displayed on the screen.

Step:

- On the main menu page, click “Track” to enter the track list.
- Select the track that you will operate, click to enter the Track Menu.

- Select View Track, the screen will display the track. You can zoom in or zoom out to change the scale. The track name is shown on the top of the screen.

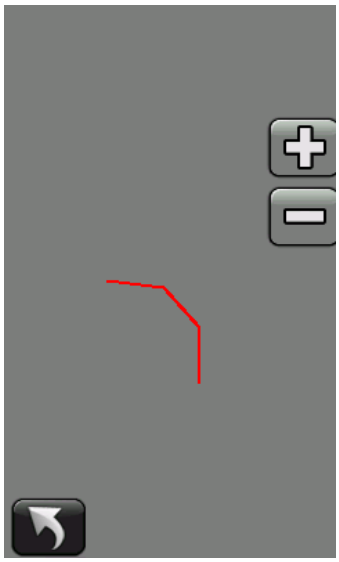


Figure 96 View track

Area Calculation

On the Track Browse screen, click Area Calculation to display the measure of the track area.

Note:

✧ *Click on* *for area calculation. A result will only be shown when the track log and display is correct and when an area can be calculated. When no area can be calculated for the track, the area calculation button won't be displayed.*

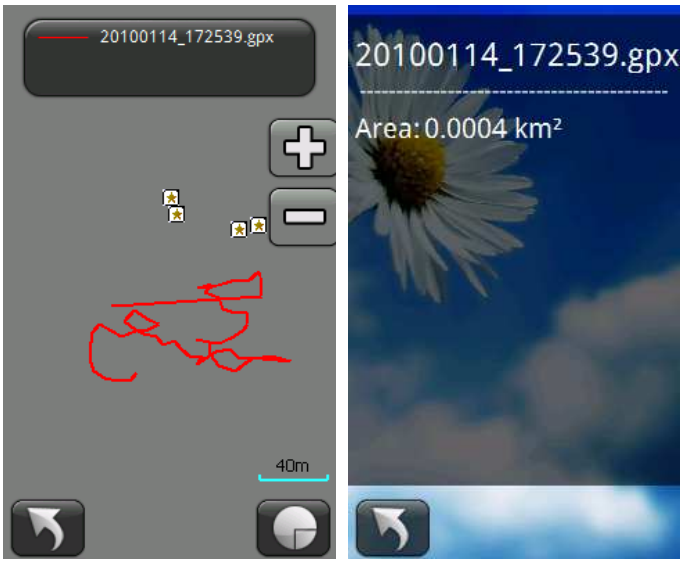


Figure 97 Area calculation

Track Detail

Figure 98 Track Detail

Step:

- On the main menu page, click “Track” to enter the track list.
- Select the track that you will operate, click to enter the Track Menu.
- Select “Detail” to view the details information of track.
- When completed, press the back button to return.

Delete Track

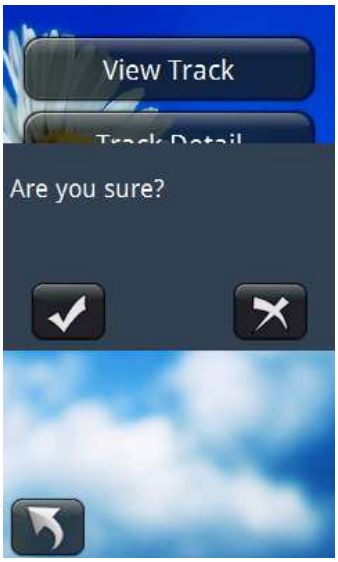


Figure 99 Prompt for Track Delete

Step:

- On the main menu page, click “Track” to enter the track list.
- Select the track that you will operate, click to enter the Track Menu.
- Select “Delete”. The confirmation message pops out. Press the confirmation button to delete.
- After delete the track log, the system will return to the previous step automatically.

View multiple Tracks

Figure 100 Multiple Track Display

- On the main menu page, click “Track” to enter the track list. Check the tracks you want to display.
- Click the "display" button to enter the path displayed page.

Note:

You can select up to three tracks to be displayed at one time.

- ✧ *The FunTrek130 stores one track per GPX file.*
- ✧ *If a GPX file with multiple tracks is downloaded from the Internet, FunTrek 130 will display them as one single track.*

Waypoints

You can view the waypoints and the detail information of each waypoint.

Figure 101 Waypoints lists

Figure 102 Waypoints menu

View Waypoints

- On the main menu page, click “Waypoints”.
- Select the point that you will operate, click to enter the Waypoints menu.
- Select "Browse”, the screen will display the waypoint position. You can zoom in or zoom out for different scale. The name of the waypoint is shown on the top of the page.

Figure 103 View Waypoint

Waypoint Detail

Step:

- On the main menu page, click “Waypoints”. .
- Select the point that you will operate, click to enter the Waypoints Menu.
- Select “detail” to view the detail information of the selected waypoint.
- When completed, press the back button to return.

Figure 104 Waypoint Detail

Geocaching

Geocaching provide you the information to find the location and the essential information to

find it.

Figure 105 No Geocaching info

Figure 106 Geocaching list

Information

The information includes “Difficulty”, “Terrain”, “Cache Size” and “Trackable” and Hints.

Figure 107 Geocaching Information

Step:

- On the main menu page, click “Geocaching”.
- Use the up/down button to flip page. The cache that has been found will be marked, contrarily mark.
- Select the cache that you will operate, click to enter the information. Use the up/down button to flip page.
- When completed, press the back button to return.

Note:

✧ *The FunTrek 130 can store up to 500 cache locations.*

GeoRadar

One the cache information page, you can view the GeoRadar page.

Step:

- On the information page, click button to view the GeoRadar.

Figure 108 GeoRadar

- On the GeoRadar information page, you can view the coordinates, distance and relative orientation of current location and the Geocaching location.
- Press confirmation button to add notes, enter the input method page to edit the note.
- After you add the note, return to the GeoRadar page.
- If you don't add the note, return to the GeoRadar page directly.

Compass

On the GeoRadar page, you can switch to the compass page.

Step:

- On the GeoRadar page, click button to view the compass information. The compass displayed current coordinates, altitude, speed and direction information.

Figure 109 Compass

- After viewing the GeoRadar and compass, press the button of compass page below to return information.

Mark Found

On the GeoRadar page, you can mark the found cache.

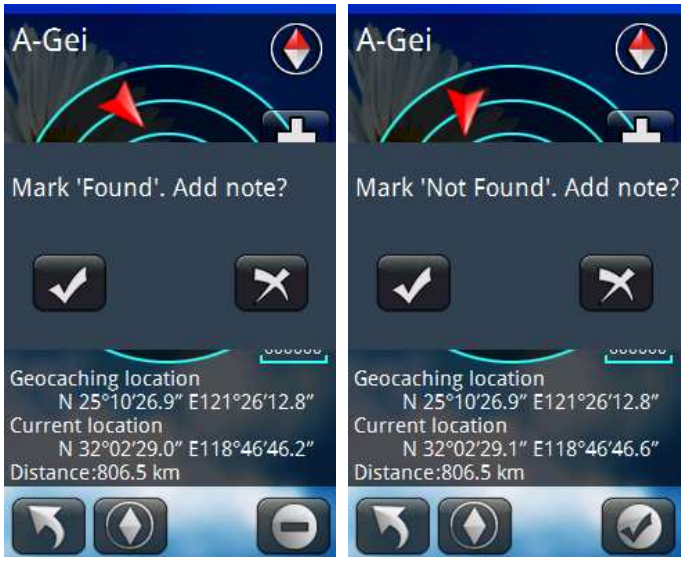


Figure 110 Mark Geocaching found or not

Step:

- On the GeoRadar page, press the button. The message “Mark ‘found’. Add note?”
- Press the button to confirm.

- You can mark the found Geocaching as ‘not found’. Press to mark it.

Add Geocaching Notes

The Geocaching that have been found can be added notes.

Step:

- When the message “mark found” prompts, press to enter the digital keyboard page to add notes.
- After adding the comments, return to the GeoRadar page.
- If you don’t want to add comments, return to the GeoRadar page directly.

Note:

✧ *New notes will be stored in the memory card's cache file in the geocache_visits.txt file.*